

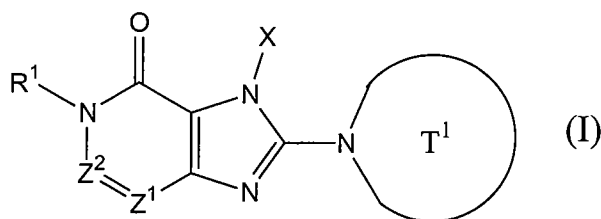
**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings of claims in the application:

**Listing of Claims:**

Claims 1-4 (Canceled)

5. (Currently Amended) A pharmaceutical agent comprising a dipeptidyl peptidase IV inhibitor and a biguanide agent in combination, ~~The pharmaceutical agent according to claim 1 or 4~~, wherein the dipeptidyl peptidase IV inhibitor is a compound represented by the following formula, or a salt or hydrate thereof,



(wherein,

T<sup>1</sup> represents a monocyclic or bicyclic 4- to 12-membered heterocyclic group containing one or two nitrogen atoms in the ring, that may have one or more substituents;

X represents a C<sub>1-6</sub> alkyl group which may have one or more substituents, a C<sub>2-6</sub> alkenyl group which may have one or more substituents, a C<sub>2-6</sub> alkynyl group which may have one or more substituents, a C<sub>6-10</sub> aryl group which may have one or more substituents, a 5 to 10-membered heteroaryl group which may have one or more substituents, a C<sub>6-10</sub> aryl C<sub>1-6</sub> alkyl group which may have one or more substituents, or a 5 to 10-membered heteroaryl C<sub>1-6</sub> alkyl group which may have one or more substituents;

Z<sup>1</sup> and Z<sup>2</sup> each independently represent a nitrogen atom or a group represented by the formula -CR<sup>2</sup>=;

R<sup>1</sup> and R<sup>2</sup> each independently represent a group according to the formula -A<sup>0</sup>-A<sup>1</sup>-A<sup>2</sup>

(wherein

A<sup>0</sup> represents a single bond or a C<sub>1-6</sub> alkylene group, which may have 1 to 3 substituents selected from group B consisting of the substituents described below;

A<sup>1</sup> represents a single bond, an oxygen atom, a sulfur atom, a sulfinyl group, a sulfonyl group, a carbonyl group, a group represented by the formula -O-CO-, a group represented by the formula -CO-O-, a group represented by the formula -NR<sup>A</sup>-, a group represented by the formula -CO-NR<sup>A</sup>-, a group represented by the formula -NR<sup>A</sup>-CO-, a group represented by the formula -SO<sub>2</sub>-NR<sup>A</sup>-, or a group represented by the formula -NR<sup>A</sup>-SO<sub>2</sub>-;

A<sup>2</sup> and R<sup>A</sup> each independently represent a hydrogen atom, a halogen atom, a cyano group, a C<sub>1-6</sub> alkyl group, a C<sub>3-8</sub> cycloalkyl group, a C<sub>2-6</sub> alkenyl group, a C<sub>2-6</sub> alkynyl group, C<sub>6-10</sub> aryl group, a 5 to 10-membered heteroaryl group, a 4 to 8-membered heterocyclic group, a 5 to 10-membered heteroaryl C<sub>1-6</sub> alkyl group, a C<sub>6-10</sub> aryl C<sub>1-6</sub> alkyl group, or a C<sub>2-7</sub> alkylcarbonyl group;

however, A<sup>2</sup> and R<sup>A</sup> each independently may have 1 to 3 substituents selected from the substituent group B described below:

when Z<sup>2</sup> is a group represented by the formula -CR<sup>2</sup>=, R<sup>1</sup>, and R<sup>2</sup> may in combination form a 5 to 7-membered ring;

except in cases where: [1] R<sup>1</sup> is a hydrogen atom; Z<sup>1</sup> is a nitrogen atom; and Z<sup>2</sup> is -CH=; and [2] Z<sup>1</sup> is a nitrogen atom; and Z<sup>2</sup> is -C(OH)=;

<Substituent group B>

Substituent group B represents the group consisting of: a hydroxyl group, a mercapto group, a cyano group, a nitro group, a halogen atom, a trifluoromethyl group, a C<sub>1-6</sub> alkyl group which may have one or more substituents, a C<sub>3-8</sub> cycloalkyl group, a C<sub>2-6</sub> alkenyl group, a C<sub>2-6</sub> alkynyl group, a C<sub>6-10</sub> aryl group, a 5 to 10-membered heteroaryl group, a 4 to 8-membered heterocyclic group, a C<sub>1-6</sub> alkoxy group, a C<sub>1-6</sub> alkylthio group, a group represented by the formula -SO<sub>2</sub>-NR<sup>B1</sup>-R<sup>B2</sup>, a group represented by the formula -NR<sup>B1</sup>-CO-R<sup>B2</sup>, a group

represented by the formula  $-NR^{B1}-R^{B2}$  (where  $R^{B1}$  and  $R^{B2}$  each independently represent a hydrogen atom or a  $C_{1-6}$  alkyl group), a group represented by the formula  $-CO-R^{B3}$  (where  $R^{B3}$  represents a 4 to 8-membered heterocyclic group), a group represented by the formula  $-CO-R^{B4}-R^{B5}$  and a group represented by the formula  $-CH_2-CO-R^{B4}-R^{B5}$  (where  $R^{B4}$  represents a single bond, an oxygen atom, or a group represented by the formula  $-NR^{B6}-$ ;  $R^{B5}$  and  $R^{B6}$  each independently represent a hydrogen atom, a  $C_{1-6}$  alkyl group, a  $C_{3-8}$  cycloalkyl group, a  $C_{2-6}$  alkenyl group, a  $C_{2-6}$  alkynyl group, a  $C_{6-10}$  aryl group, a 5 to 10-membered heteroaryl group, a 4 to 8-membered heterocyclic  $C_{1-6}$  alkyl group, a  $C_{6-10}$  aryl  $C_{16}$  alkyl group, or a 5 to 10-membered heteroaryl  $C_{1-6}$  alkyl group)).

6. (Original) The pharmaceutical agent according to claim 5, wherein  $T^1$  is a piperazin-1-yl group or a 3-amino-piperidin-1-yl group.

7. (Original) The pharmaceutical agent according to claim 5, wherein  $T^1$  is a piperazin-1-yl group.

8. (Previously Presented) The pharmaceutical agent according to claim 5, wherein X is a 3-methyl-2-buten-1-yl group, a 2-butyryl group, a benzyl group, or a 2-chlorophenyl group.

9. (Previously Presented) The pharmaceutical agent according to claim 5, wherein X is a 2-butyryl group.

10. (Previously Presented) The pharmaceutical agent according to claim 5, wherein,  
 $Z^1$  is a nitrogen atom; and  
 $Z^2$  is a group represented by the formula  $-CR^2=$ .

11. (Previously Presented) The pharmaceutical agent according to claim 5, wherein,

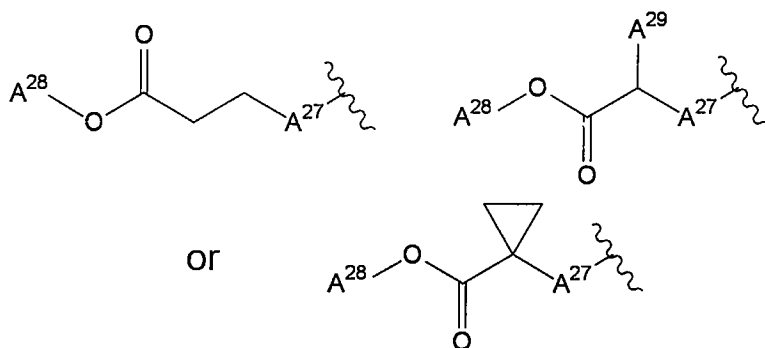
$Z^2$  is a nitrogen atom; and

$Z^1$  is a group represented by the formula  $-CR^2=$ .

12. (Previously Presented) The pharmaceutical agent according to claim 5, wherein  $R^1$  is either a methyl group, a cyanobenzyl group, a fluorocyanobenzyl group, a phenethyl group, a 2-methoxyethyl group, or a 4-methoxycarbonylpyridin-2-yl group.

13. (Previously Presented) The pharmaceutical agent according to claim 5, wherein  $R^1$  is a methyl group, or a 2-cyanobenzyl group.

14. (Previously Presented) The pharmaceutical agent according to claim 5, wherein  $R^2$  is either a hydrogen atom, a cyano group, a methoxy group, a carbamoylphenyloxy group, or a group represented by the formula:



(where,

$A^{27}$  represents an oxygen atom, a sulfur atom, or  $-NH-$ ;

$A^{28}$  and  $A^{29}$  each independently represent a hydrogen atom or a  $C_{1-6}$  alkyl group).

15. (Previously Presented) The pharmaceutical agent according to claim 5, wherein  $R^2$  is a hydrogen atom, a cyano group, or a 2-carbamoylphenyloxy group.

16. (Original) The pharmaceutical agent according to claim 5, wherein the compound represented by formula (I) is any one compound selected from:

(1) 7-(2-butynyl)-2-cyano-1-methyl-8-(piperazin-1-yl)-1,7-dihydropurin-6-one;

- (2) 3-(2-butynyl)-5-methyl-2-(piperazin-1-yl)-3,5-dihydroimidazo[4,5-d]pyridazin-4-one;
- (3) 2-(3-aminopiperidin-1-yl)-3-(2-butynyl)-5-methyl-3,5-dihydroimidazo[4,5-d]pyridazin-4-one;
- (4) 2-[7-(2-butynyl)-1-methyl-6-oxo-8-(piperazin-1-yl)-6,7-dihydro-1H-purin-2-yl]oxy] benzamide;
- (5) 7-(2-butynyl)-1-(2-cyanobenzyl)-6-oxo-8-(piperazin-1-yl)-6,7-dihydro-1H-purine-2-carbonitrile; and
- (6) 2-[3-(2-butynyl)-4-oxo-2-(piperazin-1-yl)-3,4-dihydroimidazo[4,5-d]pyridazin-5-ylmethyl] benzonitrile;

or a salt or hydrate thereof.

Claims 17-23 (Canceled)

24. (Currently Amended) The pharmaceutical agent according to claim ~~[[1]]~~ 5, wherein the biguanide agent is metformin.

25. (Currently Amended) The pharmaceutical agent according to claim 5 ~~1-or 2~~, which is a preventive or therapeutic agent for a disease which is associated with active circulating GLP-1 and/or active circulating GLP-2.

26. (Original) The pharmaceutical agent according to claim 25, wherein the disease is at least any one selected from the group consisting of: diabetes, obesity, hyperlipidemia, and gastrointestinal diseases.

Claims 27-28 (Canceled)

29. (Currently Amended) A method for preventing or treating a disease which is associated with active circulating GLP-1 and/or active circulating GLP-2, which comprises administering the pharmaceutical agent according to claim 5 ~~1-or 2~~ at an effective amount.

Claims 30-32 (Canceled)

33. (Currently Amended) A method for enhancing the effects of active circulating GLP-1 and/or active circulating GLP-2, which comprises using the pharmaceutical agent according to claim 5 ~~1 or 2~~.

Claim 34 (Canceled)